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	Application No.	Applicant(s)	
A	09/829,169	VINCENT, STEPHEN C.	
Notice of Allowability	Examiner	Art Unit	
	Rodney G. McDonald	1753	
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	plication. If not included will be mailed in due course. THIS	ve
1. Appeal Brief filed 12-	<u>-8-04</u> .		
2. The allowed claim(s) is/are <u>1-5,15 and 16</u> .			
 Acknowledgment is made of a claim for foreign priority una)	e been received. e been received in Application No cuments have been received in this of this communication to file a reply	national stage application from the	
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXAMINER		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the state of the sheet in the state of the sheet.	.84(c)) should be written on the drawi	ngs in the front (not the back) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.	
Attachment(s)	C. T. Nickier of Information	Andread Arme Prostler	
 Notice of References Cited (PTO-892) Notice of Draftperson's Patent Drawing Review (PTO-948) 	 5. ☐ Notice of Informal F 6. ☐ Interview Summary 		
,	Paper No./Mail Da	te	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🗌 Examiner's Amendr	nenvComment	
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 		ent of Reasons for Allowance	
	9.	Howley Y Mandonald RODNEY G. MICDONALD PRIMARY EXAMINER	

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REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance:

Claims 1-5 are allowable over the prior art of rejection because the prior art of record does not teach a method of manufacturing thin film resistors comprising forming a plurality of discrete component thin film chip resistors, each of the plurality formed by depositing a non-tantalum metal film resistive layer on a thin film resistor layer on a thin film resistor substrate; attaching a thin film resistor termination on each end of the metal film resistive layer; and depositing an outer moisture barrier consisting of tantalum pentoxide directly overlying and contacting the metal film resistive layer to form one of the plurality of thin film chip resistors wherein the moisture barrier is formed from deposition of the tantalum pentoxide and not through oxidation of tantalum and wherein the outer moisture barrier reduces failures due to electrolytic corrosion under powered moisture conditions; exposing selected thin film chip resistors to powered moisture conditions; observing failures due to electrolytically corrosion under powered moisture conditions in the selected thin film chip resistors.

Claim 15 is allowable over the prior art of record because the prior art of record does not teach a method of manufacturing thin film resistors comprising forming a plurality of discrete component thin film chip resistors, each of the plurality formed by depositing a non-tantalum metal film resistive layer on a substrate; attaching a termination on each end of the metal film resistive layer; depositing an outer moisture barrier consisting of tantalum pentoxide directly overlying and contacting the passivation layer to form one of the plurality of thin film chip resistors wherein the moisture barrier is

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formed from deposition of the tantalum pentoxide and not through oxidation of tantalum; exposing selected thin film chip resistors to powered moisture conditions; observing failures due to electrolytically corrosion under powered moisture conditions in the selected thin film chip resistors.

Claim 16 is allowable over the prior art of record because the prior art of record does not teach a method of manufacturing a discrete component thin film chip resistor comprising depositing a non-tantalum metal film resistive element on a thin film resistor substrate; attaching a thin film resistor termination on each end of the non-tantalum metal film resistive element; depositing an outer moisture barrier consisting of tantalum pentoxide directly overlying and contacting the non-tantalum metal film resistive element; wherein the moisture barrier is formed from deposition of the tantalum pentoxide and not through oxidation of tantalum; wherein the outer moisture barrier reduces failures due to electrolytic corrosion under powered moisture conditions.

Regarding the prior art applied, Copetti and Young do not teach the claimed subject matter because Copetti and Young fail to show utilizing tantalum pentoxide as an outer moisture barrier layer of a thin film resistor. Furthermore, Copetti and Young do not teach forming a plurality of thin film chip resistors. Copetti show a module and Young is directed to Capacitors. Nakamura et al. is related to thermal print heads and not to resistors. DerMarderosian, Jr. fail to teach testing thin film resistors. Minami also teach thermal print head manufacture and not manufacture directed to thin film resistor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably

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accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Rodney G. McDonald whose telephone number is 571-272-1340. The examiner can normally be reached on M- Th with Every other Friday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nam X. Nguyen can be reached on 571-272-1342. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Alokas & Make Rodney G. McDonald Primary Examiner

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March 7, 2007